

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-6 (Canceled).

Claim 7 (New): A process for the sequential production of a library of N different solids, which may comprise heterogeneous catalysts, where N within a day is an integer of at least 2, comprising

- a) producing at least two different sprayable solutions, emulsions and/or dispersions of elements and/or element compounds of the chemical elements present in the catalyst and optionally of dispersions of inorganic support materials,
- b) continuously metering the at least two different solutions, emulsions and/or dispersions in a predefined ratio into a mixing apparatus in which the solutions, emulsions and/or dispersions are homogeneously mixed,
- c) continuously drying the mixture removed from the mixing apparatus and recovering the dried mixture,
- d) changing the ratios in step b) and repeating steps b), c) and d) (N-1) times until N different dried mixtures are obtained,
- e) optionally shaping and optionally calcining the mixtures to give the solids, wherein the ratio in steps b) and d) is set and changed by changing or adapting the flow velocities of the different solutions, emulsions and/or dispersions during the metering into the mixing apparatus and the total stream of the individual solutions, emulsions and/or dispersions remains constant during the metering in the mixing apparatus and to the drying.

Claim 8 (New): The process as claimed in claim 7, wherein the time period between mixing the solutions, emulsions and/or dispersions and drying is less than 10 minutes.

Claim 9 (New): The process as claimed in claim 7 , wherein the drying is performed by spray drying or spray-freeze drying.

Claim 10 (New): The process as claimed in claim 7, wherein the different solids are produced in each case in amounts of from 0.1 to 500 g.

Claim 11 (New): The process as claimed in claim 7, wherein the ratio in step b) is set and changed by central computer control of the output of pumps which in each case separately transport the different solutions, emulsions and/or dispersions into the mixing apparatus.

Claim 12 (New): The process as claimed in claim 7, wherein the solids obtained in step e) are tested for a desired catalytic property in comprising the separate introduction of the individual solids into multiple reactors and subsequent carrying out of the steps required for the testing for a desired catalytic property.